| Electronic Patent                       | App | lication Fee   | Transm   | ittal  |                         |  |  |
|---|-----|--|----------|--------|-------------------------|--|--|
| Application Number:                     | 100 | 10619046   |          |        |                         |  |  |
| Filing Date:                            | 14- | 14-Jul-2003  |          |        |                         |  |  |
| Title of Invention:                     |     | Method and apparatus for adaptive and online assignment in hierarchical overlay networks |          |        |                         |  |  |
| First Named Inventor/Applicant Name:    | Sei | Seung-Jae Han  |          |        |                         |  |  |
| Filer:                                  | Joh | John E. Curtin/Debra Bennett   |          |        |                         |  |  |
| Attorney Docket Number:                 | 129 | 129250-002171/U5   |          |        |                         |  |  |
| Filed as Large Entity                   |     |  |          |        |                         |  |  |
| Utility under 35 USC 111(a) Filing Fees |     |  |          |        |                         |  |  |
| Description                             |     | Fee Code   | Quantity | Amount | Sub-Total in<br>USD(\$) |  |  |
| Basic Filing:                           |     |  |          |        |                         |  |  |
| Pages:                                  |     |  |          |        |                         |  |  |
| Claims:                                 |     |  |          |        |                         |  |  |
| Miscellaneous-Filing:                   |     |  |          |        |                         |  |  |
| Petition:                               |     |  |          |        |                         |  |  |
| Patent-Appeals-and-Interference:        |     |  |          |        |                         |  |  |
| Post-Allowance-and-Post-Issuance:       |     |  |          |        |                         |  |  |
| Extension-of-Time:                      |     |  |          |        |                         |  |  |
|   |     |  |          |        |                         |  |  |

| Description    | Fee Code          | Quantity | Amount | Sub-Total in<br>USD(\$) |
|----------------|-------------------|----------|--------|-------------------------|
| Miscellaneous: |                   |          |        |                         |
|                | Total in USD (\$) |          |        | 120                     |